

U.S. NUCLEAR REGULATORY COMMISSION
OFFICE OF INSPECTION AND ENFORCEMENT

INSPECTION FINDINGS AND LICENSEE ACKNOWLEDGMENT

1. LICENSEE Dept of the Army Fitzsimons Army Medical Center Denver, Colorado 80240		2. REGIONAL OFFICE U. S. Nuclear Regulatory Commission Office of Inspection and Enforcement Region IV 611 Ryan Plaza Drive, Suite 1000 Arlington, Texas 76012	
3. DOCKET NUMBER(S) 030-01233	4. LICENSE NUMBER(S) 05-00046-13	5. DATE OF INSPECTION April 22, 1981	
6. INSPECTION FINDINGS The inspection was an examination of the activities conducted under your license as they relate to radiation safety and to compliance with the Commission's rules and regulations and the conditions of your license. The inspection consisted of selective examinations of procedures and representative records, interviews with personnel, and observations by the inspector. The findings as a result of this inspection are as follows:			
<input checked="" type="checkbox"/> No items of noncompliance or unsafe conditions were found.			
The following items of noncompliance related to records, signs, and labels were found:			
<input type="checkbox"/> A. Rooms or areas were not properly posted to indicate the presence of a RADIATION AREA. 10 CFR 20.203(b) or 34.42			
<input type="checkbox"/> B. Rooms or areas were not properly posted to indicate the presence of a HIGH RADIATION AREA. 10 CFR 20.203(c) (1) or 34.42			
<input type="checkbox"/> C. Rooms or areas were not properly posted to indicate the presence of an AIRBORNE RADIOACTIVITY AREA. 10 CFR 20.203(d)			
<input type="checkbox"/> D. Rooms or areas were not properly posted to indicate the presence of RADIOACTIVE MATERIAL. 10 CFR 20.203(e)			
<input type="checkbox"/> E. Containers were not properly labeled to indicate the presence of RADIOACTIVE MATERIAL. 10 CFR 20.203(f) (1) or (f) (2)			
<input type="checkbox"/> F. A current copy of 10 CFR 20, a copy of the license, or a copy of the operating procedures was not properly posted or made available. 10 CFR 20.206(b)			
<input type="checkbox"/> G. Form NRC-3 was not properly posted. 10 CFR 20.206(c)			
<input type="checkbox"/> H. Records of the radiation exposure of individuals were not properly maintained. 10 CFR 20.401(a) or 34.33(b)			
<input type="checkbox"/> I. Records of surveys or disposals were not properly maintained. 10 CFR 20.401(b) or 34.43(d)			
<input type="checkbox"/> J. Records of receipt, transfer, disposal, export or inventory of licensed material were not properly maintained. 10 CFR 30.51, 40.61 or 70.51			
<input type="checkbox"/> K. Records of leak tests were not maintained as prescribed in your license, or 10 CFR 34.25(c)			
<input type="checkbox"/> L. Records of inventories were not maintained. 10 CFR 34.26			
<input type="checkbox"/> M. Utilization logs were not maintained. 10 CFR 34.27			
<input type="checkbox"/> N. Records of radiation survey instrument calibration were not maintained. 10 CFR 34.24			
<input type="checkbox"/> O. Records of teletherapy electrical interlock tests were not maintained as prescribed in your license.			
<input type="checkbox"/> P. Other _____			
7. The NRC Inspector has explained and I understand the items of noncompliance listed above. The items of noncompliance will be corrected within the next 30 days.			
(Date)		(Licensee Representative - Title or Position)	

ORIGINAL TO LICENSEE

9703040143 970220
PDR FOIA
GLADE96-395 PDR

FACILITY NAME <u>Dept of the Army</u>		INSPECTOR(S) <u>Shyem</u>		PRINCIPAL INSPECTOR _____	
LICENSEE/VENDOR <u>Fort S. Army Medical Center</u>		REVIEWER _____			
TRANS-ACTION TYPE 1 <input checked="" type="checkbox"/> CHECK (ONE) <input type="checkbox"/> Delete <input type="checkbox"/> Insert <input type="checkbox"/> Modify	DOCKET NUMBER 2 3 4 5 6 7 8 9 <u>03001233</u>	(A) REPORT NO 15 16 17 18 <u>8101</u>	DATES INQ. INVEST/INSP FROM 19 24 (C) <u>042081</u> M M D D Y Y TO 25 30 (D) <u>042281</u> M M D D Y Y		REGION CONDUCTING ACTIVITY (E) 31 <u>4</u>
	OR LICENSE NO. (BY PRODUCT) 2 14 <u>05-00046-13</u>				
	INSPECTION PERFORMED BY: 32 <input checked="" type="checkbox"/> REGIONAL OFFICE STAFF 2 <input type="checkbox"/> RESIDENT INSPECTOR 3 <input type="checkbox"/> PERFORMANCE APPRAISAL TEAM				
TYPE OF ACTIVITY CONDUCTED (CHECK ONE BOX ONLY) 33-34					
G 02 <input checked="" type="checkbox"/> SAFETY 03 <input type="checkbox"/> INCIDENT 04 <input type="checkbox"/> ENFORCEMENT		05 <input type="checkbox"/> MANAGEMENT AUDIT 06 <input type="checkbox"/> MANAGEMENT VISIT 07 <input type="checkbox"/> SPECIAL 08 <input type="checkbox"/> VENDOR		09 <input type="checkbox"/> MATL ACCT. 10 <input type="checkbox"/> PLANT SEC. 11 <input type="checkbox"/> INVENT. VERIF. 12 <input type="checkbox"/> SHIPMENT/EXPORT	
		13 <input type="checkbox"/> IMPORT		14 <input type="checkbox"/> INQUIRY 15 <input type="checkbox"/> INVESTIGATION (IF INVEST. ALSO CHECK BLOCK S)	
H INSPECTION OR INVESTIGATION WARNING 1 <input type="checkbox"/> ANNOUNCED 2 <input checked="" type="checkbox"/> UNANNOUNCED					
I INSPECTION SHIFT: <input checked="" type="checkbox"/> DAY SHIFT 2 <input type="checkbox"/> OFF-SHIFT 3 <input type="checkbox"/> WEEKEND/HOLIDAY					
J INSPECTION/INVESTIGATION NOTIFICATION (CHECK ONE BOX ONLY) 37					
1 <input checked="" type="checkbox"/> 591 2 <input type="checkbox"/> REGIONAL OFFICE LETTER 3 <input type="checkbox"/> REFERRED TO HQS FOR ACTION 4 <input type="checkbox"/> REGION LETTER & HQS FOR ACTION					
K INSPECTION/INVESTIGATION FINDINGS (CHECK ONE BOX ONLY) 38					
1 <input checked="" type="checkbox"/> CLEAR 2 <input type="checkbox"/> NONCOMPLIANCE 3 <input type="checkbox"/> DEVIATION 4 <input type="checkbox"/> NONCOMPLIANCE & DEVIATION					
L ENFORCEMENT CONFERENCE HELD: 1 <input type="checkbox"/> 39					
M NUMBER OF NONCOMPLIANCE ITEMS IN LETTER TO LICENSEE:		40 41 <u>00</u>		NOTE: CHANGE MUST BE SUBMITTED ON 766 WHENEVER PREVIOUSLY CITED ITEM OF NONCOMPLIANCE IS OFFICIALLY DELETED FROM THE RECORD.	
N NUMBER OF DEVIATION ITEMS IN LETTER TO LICENSEE:		42 43 <u> </u>			
O NUMBER OF LICENSEE EVENTS		44 45 <u> </u>			
P 46 INSPECTION FEE 1 <input type="checkbox"/> NON-ROUTINE/VENDOR (No Fee) 2 <input type="checkbox"/> ROUTINE (No Fee) 3 <input type="checkbox"/> ROUTINE (Fee) 4 <input type="checkbox"/> ROUTINE (Fee Reduced)					
Q 47 CONTENTS 2.790D INFORMATION <input type="checkbox"/> YES					
R REGIONAL OFFICE LETTER OR REPORT TRANSMITTAL DATE FOR INSPECTION OR INVESTIGATION					
591 OR LETTER ISSUED TO LICENSEE 48 53 <u>042281</u> M M D D Y Y		REPORT SENT TO HQS FOR ACTION 54 59 <u> </u> M M D D Y Y		IMMEDIATE ACTION LETTER 60 65 <u> </u> M M D D Y Y	
S SUBJECT OF INVESTIGATION (CHECK ONE BOX ONLY) 66-67					
TYPE A 10 CFR 20.403		TYPE B 10 CFR 20.405		MISC.	
01 <input type="checkbox"/> INTERNAL OVEREXPOSURE 02 <input type="checkbox"/> EXTERNAL OVEREXPOSURE 03 <input type="checkbox"/> RELEASE TO UNREST. AREA 04 <input type="checkbox"/> LOSS OF FACILITY 05 <input type="checkbox"/> PROPERTY DAMAGE		06 <input type="checkbox"/> 07 <input type="checkbox"/> 08 <input type="checkbox"/> 09 <input type="checkbox"/> 10 <input type="checkbox"/>		11 <input type="checkbox"/> INT. OVEREXPOSURE 12 <input type="checkbox"/> EXT. OVEREXPOSURE 13 <input type="checkbox"/> EXCESS RAD. LEVELS 14 <input type="checkbox"/> EXCESS CONC. LEVELS 15 <input type="checkbox"/> CRITICALITY 16 <input type="checkbox"/> LOSS/THEFT 17 <input type="checkbox"/> MUF 18 <input type="checkbox"/> TRANSPORTATION 19 <input type="checkbox"/> CONTAM/LEAKING SOURCE 20 <input type="checkbox"/> ENVIRONMENTAL EVENT	
				21 <input type="checkbox"/> EQUIP. FAILURE 22 <input type="checkbox"/> ALLEGATION/COMPLAINT 23 <input type="checkbox"/> PUBLIC INTEREST 24 <input type="checkbox"/> SABOTAGE 25 <input type="checkbox"/> ABNORMAL OCCUR. 26 <input type="checkbox"/> OTHER	
T HEADQUARTERS ENTRIES HQS ACTION ON INSP/INVEST REFERRED BY REGION (See Reference List for Code) 68 69 <u> </u>					
U DATE HQS ENFORCEMENT LETTER, NOTICE, ORDER ISSUED:		70 75 <u> </u> M M D D Y Y		NOTE: BLOCKS K TO N MUST BE VERIFIED BY IE: HQS WHENEVER ENTRIES ARE MADE IN BLOCKS T, U AND V	
V CIVIL PENALTY ISSUED: 1 <u> </u> 76		77 80 <u> </u>			
W DATE 766 ENTERED INTO COMPUTER FILE (MO/YR):		M M Y Y			
AITS REFERENCE					

USNRC - INSPECTION & ENFORCEMENT STATISTICAL DATA

(NOTE: % COMPLETE AND STATUS: LEAVE BLANK FOR MC 92, 93 & 94 PROCEDURES AND 30 702, 30 703 & 30 800)

(NOTE: STATUS CODING: BLANK TO REMAIN OPEN C. CLOSED L. REOPEN & LEAVE OPEN P. REOPEN THIS TRANSACTION ONLY)

(NOTE: MODULE REQUIRING FOLLOWUP: USE ONLY WHEN MODULE INSPECTED IS 92 7018.)

MODULE TRACKING INFORMATION										NONCOMPLIANCE																																															
LINE	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45													
MODULE NO. INSP.		MANUAL		CHAP.		PROC.		NO.		LEVEL		DIRECT INSP.		EFFORT		MAN HRS.		EXPEND.		ED THIS		INSP.		% COM.		PLETE		TO		DATE		STATUS		MODULE REQ.		FOLLOWUP		PHASE		MANUAL		CHAP.		PROC.		NO.		LEVEL									
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LINE COLUMN NUMBER SHOWN IN BOTTOM LINE

INSPECTION REPORT NO. 81-01

Attached

☐ Appendix A☐ Appendix B☐ Appendix C☐ Memo

Dept. of the Army
Fitzsimons Army Medical Center, U.S. A. Med Res and
Nutrition Lab
Denver, CO. 80240

203

Licensee contact: Dr. Nasser Ghadd Telephone no. 341-8219

Pocket 030-01233
 License no. 05-00046-13 Last amendment and date: July 14, 1980

Category: G(1), and Priority: III, as of last amendment.

Inspection date(s): April 20-21-22, 1981 Type of inspection: Unannounced Routine
Safety

SUMMARY OF FINDINGS AND ACTION

☒ No noncompliance, clear 591 issued☐ Noncompliance, 591 issued☐ Noncompliance, Appendix A☐ Regional action Hq action☐ Action on previous noncompliance, Appendix B☐ Supplemental info, Appendix C

RECOMMENDATIONS

See basis in Appendix C or attached memo.

☐ Change Category to: ☐ Change Priority to: ☒ Next inspection date: April 1983

PERSONS CONTACTED

* 1st Lt. Harry Cullings, RSO & H.P.✓ Sp. 4 Monyes - Tech.✓ Sp. 6 Stephen Michel, H.P. Tech* Br. Gen. W.R. Druce - MD - Commander* Col. Nasser V. Ghadd, Chief of Radiology * Col. Sam Seeley MD Chief of Staff

* Col. Spaulding, Dept. Cmdr. / Chem R. P.C. * Major Lawrence Coldrey Med. physicist MSC
 * Exit Briefing ✓ - Interviewed

Inspector: H. M. SimpsonApproved: [Signature]4/28/81

Plan approved: _____ Date: _____

Licensee: _____

License no: _____

Inspection Items	Scheduled for inspection	Post-inspection status	Module no.	766 Time Info
Management meeting - Entrance and Exit Interviews (REQUIRED)	✓	✓	307033	1.0
Initial Management Meeting				
Program requirements, MC 28 <u>3D</u> (REQUIRED)	✓	✓	78710B	7
Licensee Event Followup			927008	
Followup on Inspector-identified problems			927018	
Followup on Noncompliance and Deviations			927028	
IE Bulletin/Immediate Action Letter Followup			927033	
Followup on Headquarters Requests			927048	
Followup on Regional Requests			927053	
Independent Inspection Effort (REQUIRED)	✓		92706B	1.0
Inspector Dispatched to Site			937008	
Followup on Significant Event Occurring During Inspection			937018	

AREAS INSPECTED AND FINDINGS

Licensee: _____ License no: 05-00046-13 Amendment no: 13

INSPECTION ITEMS	CRITERIA	FINDING
1. <u>Organization</u>	Lic Cond _____	<u>OK</u>
Structure of organization as described in requirements?	Dr. Chacal - Chief	
NOTES & REMARKS:	Dr. Blue - Chief Med Services	
Harry Lulling	Dr. Fritz - Chief Pathology	
RSO	Dr. Van Corby - Chief Clinical Investigations	
Michel - Tech	Dr. Wothevill - Radiopharm.	
2. <u>Licensee internal audits</u>	Lic Cond _____	<u>OK</u>
Scope and frequency of audits as required?	Audit setup of with a separate	
Conducted by appropriate persons? Records maintained? Reviewed by management?	Health Physics Dept.	
Deficiencies identified & corrected?	Radiation Protection Committee	
NOTES & REMARKS:	meets quarterly	
3. <u>Training and qualification of personnel</u>	Lic Cond _____	<u>acceptable</u>
Training & retraining conducted as required?	All tech registered with Army Med. Dept	
Written & oral exams conducted? Examination results reviewed by management?	OJT. course: Nuclear Med.	
Instructions to workers per 19.12? yes.	19.12 Once a year ad with new personnel on Board.	
NOTES & REMARKS:		
4. <u>Radiation protection procedures</u>	Lic Cond _____	<u>Acceptable</u>
Procedures available and implemented? Identify radiopharmaceutical and dose(s)? Cover handling of patients receiving therapeutic doses? Cover handling of cadavers?	*See attach ^{ment} Documentation of surveys very well done. Patient not released until below 2 m/hr.	
Emergency procedures for spills, etc?	No cadavers	
Personnel understand procedures?	Procedures for emergencies (see NRC 10.8	
NOTES & REMARKS:		

AREAS INSPECTED AND FINDINGS

Licensee: _____

Docket
 License no: 030-01233 Amendment no: 13
05-00046-13

INSPECTION ITEM	CRITERIA	FINDING
5. <u>Use of materials</u>	Lic Cond _____	<u>acceptable</u>
Procurement and use as required? Procurement and use records are maintained by R.P.O.		
Special tests (moly breakthrough, leak tests, etc) required? All work for purchase has to go through the R.P.O.		
Dose calibration checks performed? Moly breakthrough test performed - Records maintained		
Posting & labeling as required? All posting and labeling as needed and required by license		
NOTES & REMARKS:		Required leak Tests performed and records maintained
6. <u>Storage of materials</u>		<u>acceptable</u>
Material secured in both restricted and unrestricted areas? Adequately?	20.207	
NOTES & REMARKS:		All radioactive materials secured properly in all use areas still in the 3 major buildings.
7. <u>Facilities</u>	Lic Cond _____	<u>acceptable</u>
As described in lic cond or application? Facilities are as described -		
Any changes made? Adequacy?		
NOTES & REMARKS:		
8. <u>Instruments</u>	Lic Cond _____	<u>acceptable.</u>
Survey meters & instruments adequate for program? Calibration performed at least semi annually definitely at 6 month intervals		
Instruments & meters operable? Calibrated? acceptable as per the requirements		
Calibration adequate?		
NOTES & REMARKS:		

AREAS INSPECTED AND FINDINGS

Licensee: _____

License no: 05-0004673 Amendment no: 13

INSPECTION ITEMS	CRITERIA	FINDING
9. Receipt and transfer of material		<u>acceptable</u>
Written procedures for pickup, receiving, opening packages?	20.205	procurement and use records are maintained.
Survey of packages when received?	20.205(c)(1)	only break through test room
Records of survey of packages?	20.401(b)	records kept
Transfer of materials proper? Transfer records maintained?	30.41, 30.51	All posting and labeling as required.
Authorized containers used? Shipping papers & package labels proper for packages on hand?	71.5	
NOTES & REMARKS:		

10. Personnel protection - external

Personnel monitoring controls adequate? Exposures minimized?	20.101, 20.202	<u>acceptable</u>
Exposure records (NRC-4 or 5) maintained? Available for employee review?	20.102(b), 20.401(a)	<u>acceptable</u>
Surveys conducted? Adequate?	20.201	<u>acceptable</u>
Records of monitoring, surveys?	20.401	<u>acceptable</u>
Levels in unrestricted areas within limits?	20.1, 20.105	<u>acceptable</u>

NOTES & REMARKS: special investigation performed when radiologist did a 50 min ^{fluor} exam without a film badge. Estimated exposure to the extremity was 230 Rem, whole body 114 mrem. ^{fluor} exposures due to radioisotope use.

11. Personnel protection - internal

Airborne concentrations in restricted areas?	20.103	
Exposures to minors?	20.104	
Posting of airborne radioactivity areas?	20.203(d)	
Survey, monitoring adequate for airborne radioactivity, surface contamination? Records maintained?	20.201 20.401	

NOTES & REMARKS:

spot checks made as per license application. Relabelled the hood and performed the velocity measurements across the face. Greater than 100 fpm across the face. Better now than when the ventilation was evaluated and completed.

AREAS INSPECTED AND FINDINGS

Licensee: _____ License no: 05-0004613 Amendment no: 13

INSPECTION ITEM	CRITERIA	FINDING
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12. Effluent controls, waste disposalacceptable

Release of effluents controlled?	20.106, 20.303
Waste disposals controlled? <i>has own STP system</i>	20.301, 20.303, 20.304, 20.305
Procedures, records maintained? <i>as per</i>	20.401, Lic Cond _____
Surveys made? Adequate? <i>yes</i>	20.401

NOTES & REMARKS:

*Records of solid waste disposal are maintained
liquid effluent controlled and evaluated.*

13. Notifications and reportsacceptable

To individuals. <i>yes in the individual records (X Ray exposures)</i>	19.13
Overexposures, excessive levels & concentrations, incidents. <i>none</i>	20.403, 20.405
Personnel exposures and monitoring, termination reports. <i>none</i>	20.407; 20.408
Theft or loss of licensed material. <i>none reported or otherwise noted</i>	20.402

NOTES & REMARKS:

14. Posting of noticesacceptable

Part 20, license & documents, procedures, notice of violations posted?	19.11(a)
NRC-3 posted? <i>adequate</i>	19.11(c)

NOTES & REMARKS:

15. Other license conditions

Lic

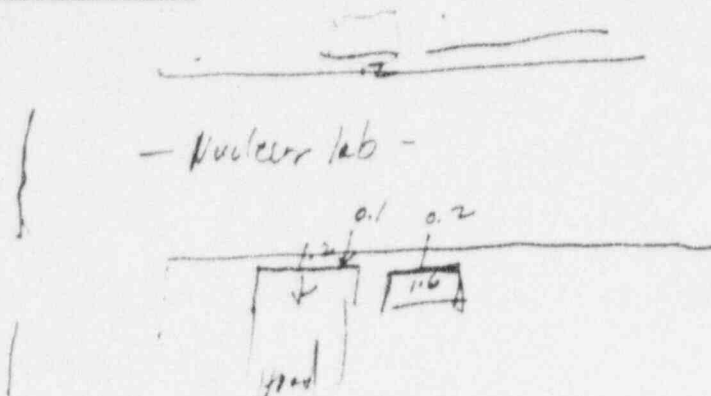
acceptable

Full compliance with all other license conditions

AREAS INSPECTED AND FINDINGS

Licensee: _____ License no: 65-00046-13 Amendment no: 13

INSPECTION ITEMS	CRITERIA	FINDING
16. <u>Confirmatory measurements</u>		<u>acceptable</u>

17. Independent inspection effort special check made of use logs -

Noted more kits are being used since the last inspection. Increased the size of the ⁹⁹Tc containers to match increased amounts in use.

18. Incidents and events

Any incidents of misadministrations, contamination, etc, not otherwise covered by reports?

acceptable
None occurred ~~in the~~ since the last inspection.